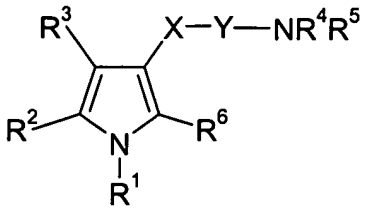
1,5-DIARYL-PYRROLE-3-CARBOXAMIDE DERIVATIVES AND THEIR USE AS CANNABINOID RECEPTOR MODULATORS

ABSTRACT



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The present invention relates to a compound of formula (I) in which R^1 and R^2 independently represent phenyl, thienyl or pyridyl each of which is optionally substituted by one, two or three groups represented by Z; and R^3 is H, a C_{1-3}alkyl group, a C_{1-3}alkoxymethyl group, trifluoromethyl, a hydroxyC_{1-3}alkyl group, an aminoC_{1-3}alkyl group, C_{1-3}alkoxycarbonyl, carboxy, cyano, carbamoyl, mono or di C_{1-3}alkylcarbamoyl, acetyl, or hydrazinocarbonyl of formula –CONHNR^{a}R^b wherein R^a and R^b are as defined for R^4 and R^5 respectively; X is CO or SO_2; Y is absent or represents NH optionally substituted by a C_{1-3}alkyl group; R^4 and R^5 independently represent: a C_{1-6}alkyl group; an (amino)C_{1-4}alkyl-group in which the amino is optionally substituted by one or more C_{1-3}alkyl groups; an optionally substituted non-aromatic C_{3-15}carbocyclic group; a (C_{3-12}cycloalkyl)C_{1-3}alkyl-group; a group -$(CH_2)_r$(phenyl)$_s$; naphthyl; anthracenyl; a saturated 5 to 8 membered heterocyclic group containing one nitrogen and optionally one of the following: oxygen, sulphur or an additional nitrogen wherein the heterocyclic group is optionally substituted; 1-adamantylmethyl; a group - $(CH_2)_t$ Het where Het represents an aromatic heterocycle optionally substituted; or R^4 represents H and R^5 is as defined above; or R^4 and R^5 together with the nitrogen atom to which they are attached represent a saturated 5 to 8 membered heterocyclic group; R^6 is H, a C_{1-3}alkyl group, a C_{1-3}alkoxymethyl group, trifluoromethyl, a hydroxyC_{1-3}alkyl group, C_{1-3}alkoxycarbonyl, carboxy, cyano, carbamoyl, mono or di C_{1-3}alkylcarbamoyl, acetyl, or hydrazinocarbonyl of formula –CONHNR^{a}R^b; with provisos; to processes for preparing such compounds, to their use in the treatment of obesity, psychiatric and neurological disorders particularly obesity, to methods for their therapeutic use and to pharmaceutical compositions containing them.